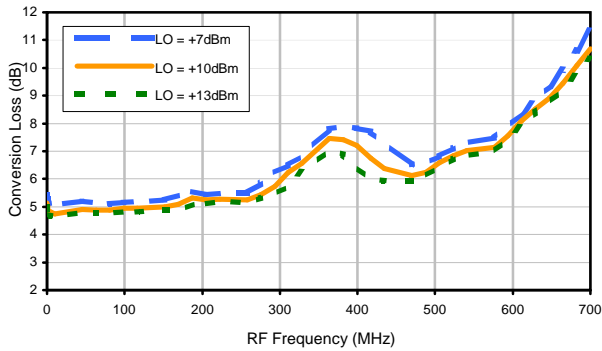


# Frequency Mixer

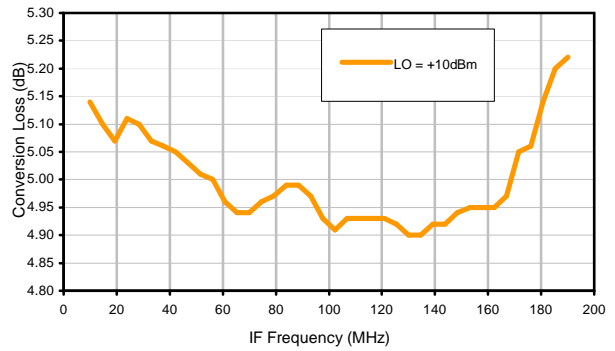
# SBL-1-1LH

## Typical Performance Curves

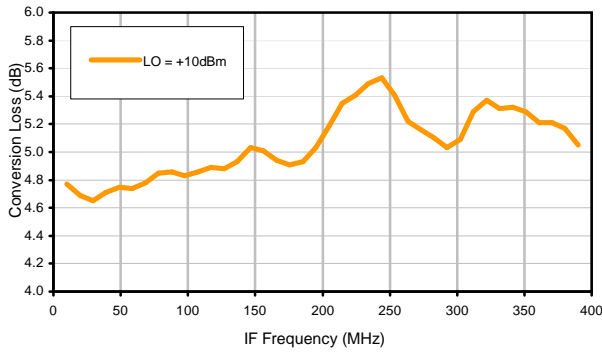
Conversion Loss @ IF=30MHz



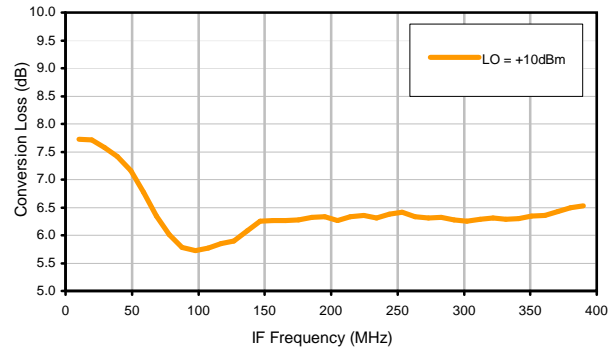
Conversion Loss vs. IF @ RF=200.1MHz



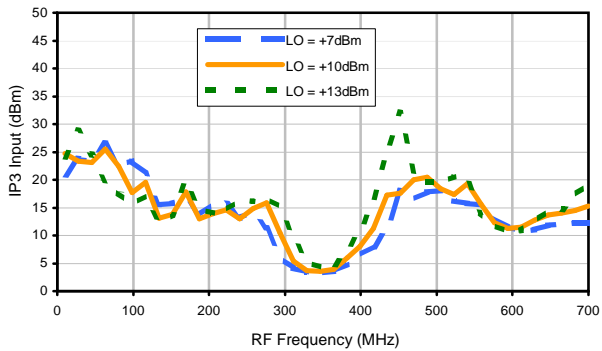
Conversion Loss vs. IF @ RF=10.1MHz



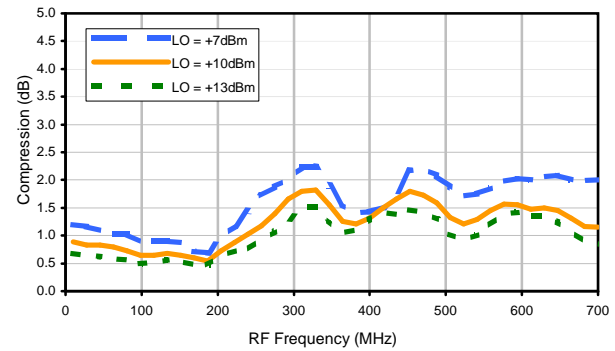
Conversion Loss vs. IF @ RF=400.1MHz



IP3 Input

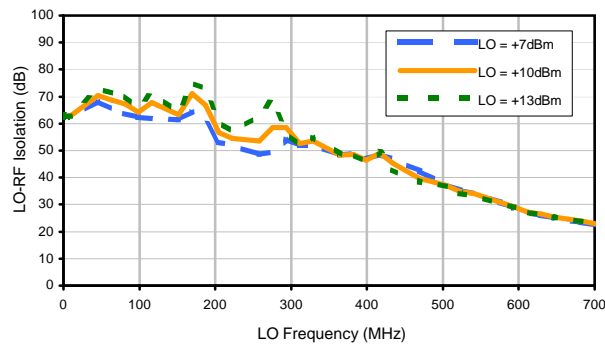


Compression @ RF IN=+5dBm

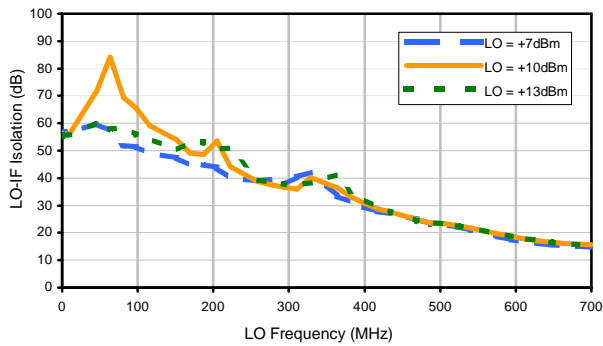


## Typical Performance Curves

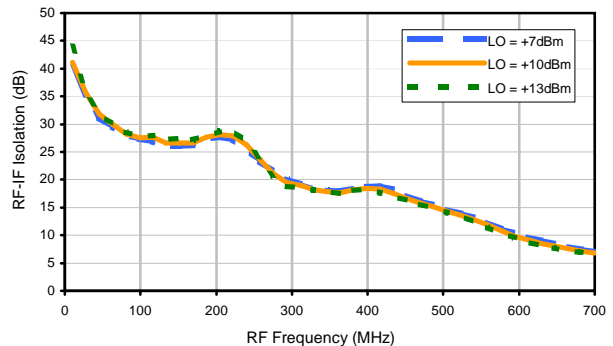
LO-RF Isolation



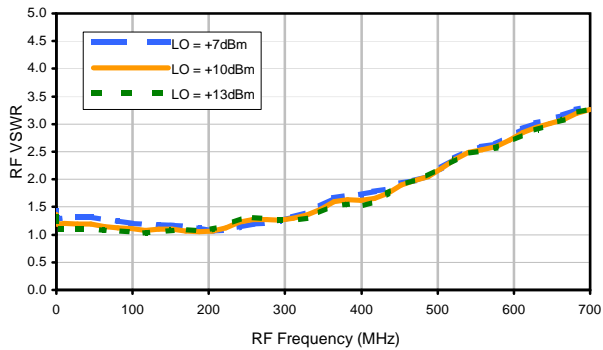
LO-IF Isolation



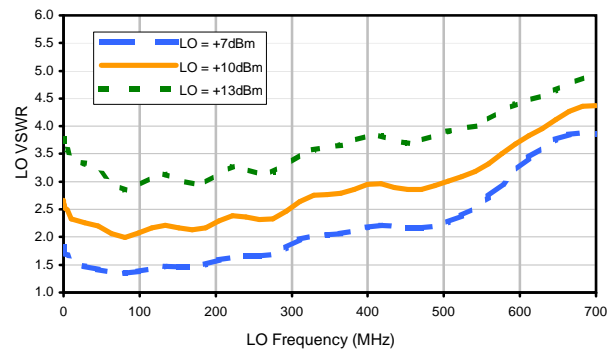
RF-IF Isolation



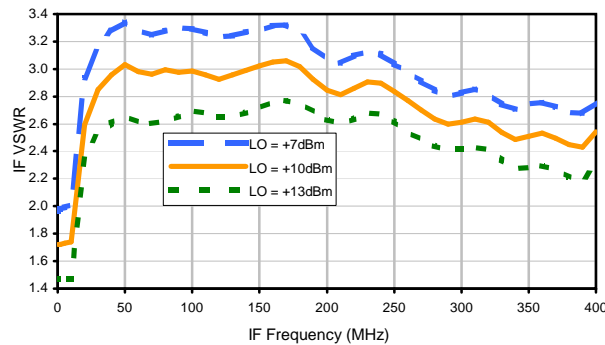
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	27	47	24	52	28	50	55	52	52	72
1	-	24	+0	29	12	35	30	41	38	39	50	54
2	94	54	47	56	51	49	48	54	47	55	60	57
3	>100	47	35	48	41	59	39	59	48	51	50	49
4	>100	62	69	66	59	71	57	75	56	66	64	66
5	>100	77	69	52	51	54	48	58	47	57	60	63
6	>100	80	72	73	72	69	86	68	74	69	74	79
7	>100	73	81	82	69	63	68	66	64	68	62	78
8	>100	80	92	91	79	80	88	85	81	86	81	76
9	>100	81	78	85	85	85	82	71	74	71	73	73
10	>100	>94	88	94	>94	>94	89	89	94	85	92	89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 200.1 MHz; 0.00 dBm.  
 LO IN: 230.01 MHz; +10.00 dBm  
 IF OUT: 29.91 MHz; -5.51 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	30	13	42	16	37	40	34	39	51
1	-	22	+0	33	11	34	30	34	33	31	49	45
2	>100	55	51	55	53	53	50	67	53	62	64	62
3	>100	61	54	60	55	65	52	61	59	64	59	64
4	>100	81	78	>84	83	>84	82	>84	80	>84	>84	>84
5	>100	>84	80	>84	82	84	79	>84	78	>84	>84	>84
6	>100	>84	>84	>84	>84	>84	73	>84	>84	>84	>84	>84
7	>100	>84	>84	>84	>84	>84	>84	75	>84	>84	>84	>84
8	>100	>84	>84	>84	>84	>84	>84	>84	65	>84	>84	>84
9	>100	>84	>84	>84	>84	>84	>84	>84	>84	70	>84	>84
10	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	81	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 200.1 MHz; -10.00 dBm.  
 LO IN: 230.01 MHz; +10.00 dBm  
 IF OUT: 29.91 MHz; -15.57 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.  
 2. + entry denotes harmonics are in (dBc) above IF OUTPUT.  
 3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

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 SBL-1-1LH  
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